From glowbugs@sco.theporch.com Sat Mar 1 22:27:45 1997
Return-Path: <glowbugs@sco.theporch.com>
Received: from sco.theporch.com (sco.theporch.com [192.150.244.23])
 by uro.theporch.com (8.8.5/AUX-3.1.1)
 with SMTP id WAA04458 for <shimshon@theporch.com>;
 Sat, 1 Mar 1997 22:27:41 -0600 (CST)
From: glowbugs@sco.theporch.com
Received: from sco.theporch.com (localhost [127.0.0.1]) by sco.theporch.com
(8.6.8.1/SCO5) with SMTP id EAA02253; Sun, 2 Mar 1997 04:29:52 GMT
Date: Sun, 2 Mar 1997 04:29:52 GMT
Message-Id: <199703020429.EAA02253@sco.theporch.com>
Errors-To: ws4s@infoave.net
Reply-To: glowbugs@sco.theporch.com
Originator: glowbugs@sco.theporch.com
Sender: glowbugs@sco.theporch.com
Precedence: bulk
To: Multiple recipients of list <glowbugs@sco.theporch.com>
Subject: GLOWBUGS digest 462
X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
X-Comment: Please send list server requests to listproc@sco.theporch.com
Status: RO

GLOWBUGS Digest 462

Topics covered in this issue include:

1) surplus al
 by leeboo@ct.net (Leon Wiltsey)
2) 8295A tube
 by oscardb@declan.chem.uwa.edu.au
3) Re: xtals FT-171 are fine for glowbugging
 by rdkeys@csemail.cropsci.ncsu.edu
4) Re: UY224 for Hartley, maybe?
 by mjsilva@ix.netcom.com (michael silva)
5) Switch Mode Power supply @3kV
 by oscardb@declan.chem.uwa.edu.au

Date: Thu, 20 Feb 1997 21:19:03 -0500 (EST)
From: leeboo@ct.net (Leon Wiltsey)
To: GLOWBUGS@theporch.com
Subject: surplus al
Message-ID: <199702210219.VAA02723@blue.ct.net>

Just what is the address of surplus al
every time I try to go to his home page
i get an unable to locate error

Thank the good LORD for all that you have!!!

Leon B Wiltsey jr. (Lee)

67yr old semi disabled senior
(stroke got my balance and coordination)
play keyboard and sing
music 1920's to 60'
none of the 90's noise

Date: Fri, 21 Feb 1997 04:08:31 GMT
From: oscardb@declan.chem.uwa.edu.au
To: glowbugs@devp214.theporch.com
Subject: 8295A tube
Message-ID: <1.5.4.16.19970221115234.400fe0ec@declan.chem.uwa.edu.au>

I need help!! I have geen given an amplifier (in bits) which operates with a VARIAN 8295A tube. I went through my books and the net and couldnt find anything. Could someone please send me any information about this tube, in particular pinout, max ratings and max frequency.

Thanks in advance...

Date: Fri, 21 Feb 1997 10:58:08 -0500 (EST)
From: rdkeys@csemail.cropsci.ncsu.edu
To: glowbugs@devp214.theporch.com
Subject: Re: xtals FT-171 are fine for glowbugging
Message-ID: <9702211558.AA163322@csemail.cropsci.ncsu.edu>

> A friend at work laid a shoebox full of crystals on my desk yesterday. They
> are quite large, and have the following information on them:
> Crystal Holder FT-171-B
> Xtal Freq 3nnn KC
> in BC610
> US ARMY Signal Corps
>
> where 3nnn is the actual frequency of the crystal. Many of these are usable
> ham band frequencies, and many are in the 2nnn mHz range. Judging by the

> sheer quantity, they must be quite common. My question is, are they suitable
> for a glowbug rig use? If yes, with what, if any qualifications or
> limitations. What are their operating characteristics / requirements, etc.
> etc?
> TIA for any info.
> Tom, NoBS

These xtals are fine for glowbugging operation, with any oscillator up to the 100 watt size (be careful of 50 watt and larger oscillators even on these xtals unless you take precautions to limit xtal current). These were used with a 6L6 sized oscillator in the BC-610. They will work fine with a peanut tube up through a 6146. They will work on an 813 sized tube, but you have to be careful then. RCA had a design in the ads on back covers of QST's about 1939 that had a tiny schematic for the 150 watt 813 oscillator that would use this size xtal. Generally, though, stick to 807's and 6146's as max on the FT-171 rock. They will work with any xtal oscillator circuit for fundamental frequency xtals. You need a dual 3/4 inch spaced banana plug receptacle or a pair of binding posts with banana plug sockets spaced 3/4 inch apart. The actual sockets for 3/4 inch spaced FT-171 style xtals are a bit scarce.

Good LUck!

73/ZUT DE NA4G/Bob UP

Date: Sun, 23 Feb 1997 12:54:07 -0600 (CST)
From: mjsilva@ix.netcom.com (michael silva)
To: glowbugs@devp214.theporch.com
Subject: Re: UY224 for Hartley, maybe?
Message-ID: <199702231854.MAA18316@dfw-ix12.ix.netcom.com>

You wrote:
>
>Got a Cunningham UY-224 tube at an antique radio meet today, for a
>princely sum of $2. Sold on 11/11/32 according to the sticker. Seller
>told me it was good....
>
>If so, can this plate-cap equipped tube be grafted into some sort of
>Hartley peanut-whistle? I've been archiving all the glowbug talk for
>some time but the number didn't ring a bell -- but for the price of a
>Big Mac I thought I would take a chance. <grin>

The 224 is a venerable old soldier. It was one of the very first screen-grid tubes, and the resulting isolation between grid and plate, and increase in plate resistance and amplification, revolutionized the

radio biz. It is a tetrode (no pentodes yet), indirectly heated (2.5 volts, 1.75 amps from memory). It was later improved (mostly by treating the plate to reduce secondary emission, I believe) and became the '24A. A classic regen lineup from the late '20s / early '30s was a 224 detector followed by a 227 triode audio amplifier. While it can certainly put out some RF power, the fact that it's a tetrode with limited plate output swing will limit it's output capacity to one or two hundred milliwatts, I'd guess.

Pinout:

1) Heater
2) Plate
3) Screen Grid
4) Cathode
5) Heater
Cap) Control Grid

73,
Mike, KK6GM

Date: Mon, 24 Feb 1997 07:25:41 GMT
From: oscardb@declan.chem.uwa.edu.au
To: glowbugs@devp214.theporch.com
Subject: Switch Mode Power supply @3kV
Message-ID: <1.5.4.16.19970224150938.2e1fba1a@declan.chem.uwa.edu.au>

I'm tinkering with the idea of building a switch mode power supply with an output of 3kV. I havent as yet researched much , but I'm thinking of using a frequency at around 1MHZ. I'll probably use FETS, a 1MHz oscillator and 2 Large toroids stacked. (Cant remember but they are Amidon, RED and about 2 inches in diameter.
Input 250 RMS (rectified) output 3kV DC. It should be nice and compact.

It sounds so simple, can anyone see something which I've missed ??

End of GLOWBUGS Digest 462
